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Surface modification of moulded resins - by contacting surface of polymers with aq. soln. of aluminium cpds. or boron cpds., as scavengers for liberated fluorine radicals

Patent Assignee: USHIO INC (USHE)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 7179628	A	19950718	JP 93344657	A	19931221	199537 B
JP 3211532	B2	20010925	JP 93344657	A	19931221	200162

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Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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JP 7179628	A	7		C08J-007/00	
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JP 3211532	B2	7		C08J-007/00	Previous Publ. patent JP 7179628
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Abstract (Basic): JP 7179628 A

The surface of polymers contg. C-F bonding are modified by contacting with aq. soln. of Al cpds. or B cpds. as scavenger of liberated F radical and irradiating by the emitted light chosen from (1) Xe excimer laser-ray at distance of not greater than 5 mum, (2) Ar-Cl excimer laser-ray in not greater than 20 mum, (3) Ar-F excimer laser-ray in not greater than 2,000 mum or (4) UV of low pressure Hg lamp in not greater than 80 mum. The wall power loading of emission bulb is controlled in not less than 0.2 watts/square cm and the light emission part is, pref., cooled at not higher than 250deg.C, with the bulb walls contacting with electrodes at not higher than 300deg.C.

USE - Poly-fluoride resins give improved coating, printing and adhesion.

ADVANTAGE - The process is applied cheaply for high volume treatment.

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Derwent Class: A14; A35; E33; E36

International Patent Class (Main): C08J-007/00

International Patent Class (Additional): C08L-027-12